CAD-0208 Series
Communication Appliance

User's Manual

Revision: 1.1

CE

This certificate of conformity of CAD-0208 series with actual required safety standards in accordance with 89/366 ECC-EMC Directive and LVD 73/23 ECC

UL

This product meets all safety requirements per UL60950 standard.

Portwell

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Chapter 1 Introduction

1.1 About This Manual

This manual contains all required information for setting up and using the CAD-0208 series.

CAD-0208 provides the essential platform for delivering optimal performance and functionality in the entry communications appliance market segment. This manual should familiarize you with CAD-0208 operations and functions.CAD-0208-3422 series provide up to 4 on-board Ethernet ports to serve communication applications like Firewall, requiring 4 Ethernet ports to connect external network (internet), demilitarized zone and internal network.

CAD-0208 series overview:

- ✧ INTEL ATOM D510 1.66GHz
- ✧ Memory: One DDR2 SODIMM slot and up to 2G
- ✧ Four Gigabit Ethernet interfaces with two Bypass segments
- ✧ Independent management console(RS232)
- ✧ One min-PCI -E socket for mini-PCI-E / USB device connectivity.
- ✧ One 2.5” SATA Hard disk

1.2 Manual Organization

This manual describes how to configure your CAD- 0208 system to meet various operating requirements. It is divided into three chapters, with each chapter addressing the basic concept and operation of this system.

Chapter 1: Introduction. This section describes how this document is organized. It includes brief guidelines and overview to help find necessary information.

Chapter 2: Hardware Configuration Setting and Installation. This chapter demonstrated the hardware assembly procedure, including detailed information. It shows the definitions and locations of Jumpers and Connectors that can be used to configure the system.

Chapter 3: Operation Information. This section provides illustrations and information on the system architecture and how to optimize its performance.

Any updates to this manual, would be posted on the web site:

http://www.portwell.com/products/index.html

1.3 Technical Support Information

Users may find helpful tips or related information on Portwell's web site: http://www.portwell.com A direct contact to Portwell's technical person is also available.

1.4 Board Layout

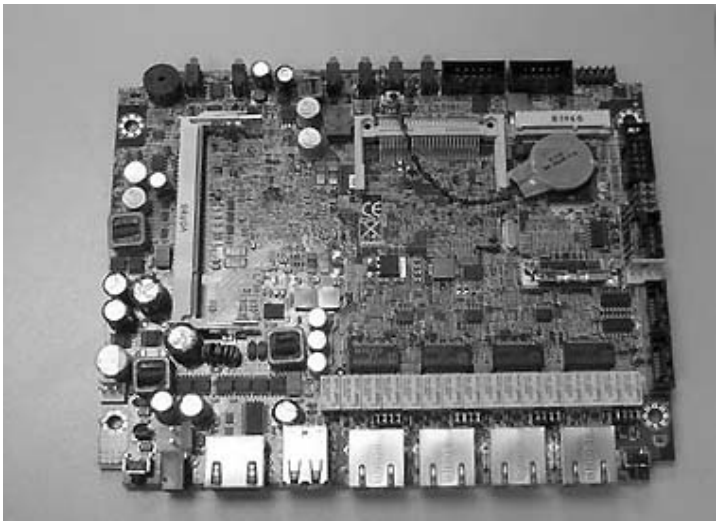


Figure 1-1 Board Layout of CAD-0208 M/B

1.5 System Block Diagram

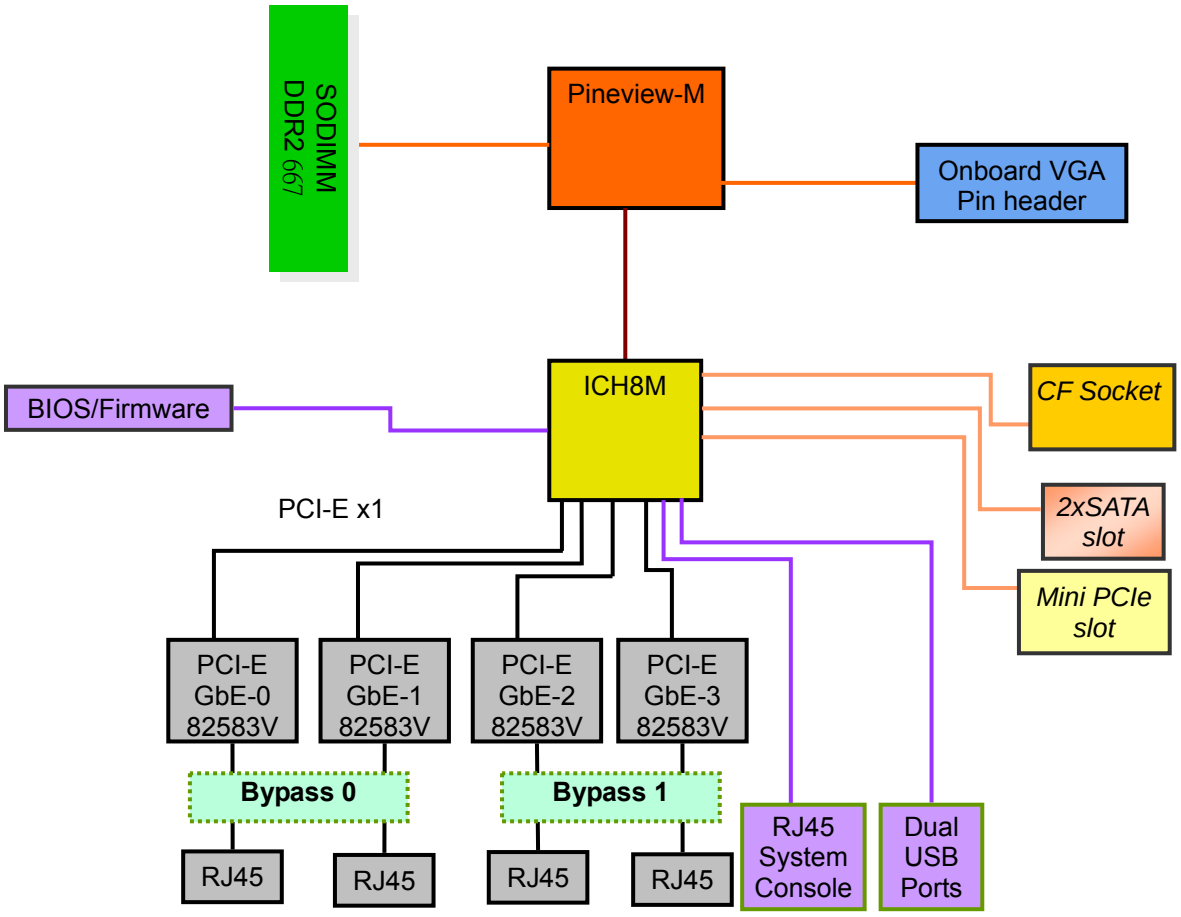


Figure 1-2 CAD-0208 Basic Block Diagram

1.6 Product Specification

	Feature	Detailed Description
1 CPU		• Onboard ATOM N450 1.66GHz processor
2 CPU	Board	• CAPB-0208VD with Intel ATOM D510+ ICH8M • Board dimension: 170x140mm
3	System Memory	• 1 x 200-pin SO-DIMM socket • Support DDR2 667 max. up to 2GB, non-ECC
4 VGA	Interface	• 1 x Internal VGA pin header (2 x 5-pin) • A semi-cutting hole for st andard D-Sub 15-pin VGA connector on chassis.
PCI-E	Ethernet	• Max. four PCI-E GbE ports base on Intel 82583V
5 S	torage Device	• 1 x SATA 2.5” Hard disk • 1 x CF
6 Exp	ansion slots	• 1 x mini PCIe
7 Chassis		• Form factor: 1U desktop chassis • To accommodate: M/B, HDD bracket for 2.5” • Dimension: 300x140x40mm
8 Front	Panel	• Ethernet interfaces: Four RJ45 Ethernet connectors. • RS232 interface: RS232 port with RJ45 connector for system console • USB interface: dual-USB connectors • Hardware Reset Button • LED: – System LED: Power and Data access. – Ethernet LED
9 Rear	Panel	• AC power inlet • A semi-cutting hole for 15-pin VGA connector • A semi-cutting hole for wireless antenna
10 PSU		• 60W, 15V power adapter
11 Dimension		300x150x40mm
12	Environmental requirements	• Storage temp.: -20°C to 70°C • Operating temp.: 0°C to 40°C. • Humidity: 10 to 90% RH non-condensing

Chapter 2 Getting Started

This section describes how the hardware installation and system settings should be done.

2.1 Included Hardware

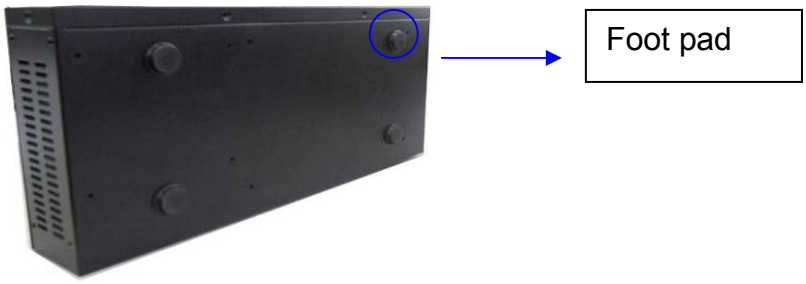
The following hardware is included in package:

- CAD-0208 Communication Appliance System Board
- One null serial port cable
- AC-DC Adapter
- SATA cable
- Hard disk ground cable
- Chassis foot pad
- Hard disk assembly kits

2.2 Before You Begin

Before starting, you should install foot pad, it can help the chassis has well airflow.

There are four foot pads should be installed.



To prevent damage to any system board, it is important to handle it with care. The following measures are generally sufficient to protect your equipment from static electricity discharge:

When handling the board, use a grounded wrist strap designed for static discharge elimination and touches a grounded metal object before removing the board from the antistatic bag. Handle the board by its edges only; do not touch its components, peripheral chips, memory modules or gold contacts.

When handling processor chips or memory modules, avoid touching their pins or gold edge fingers. Restore the communications appliance system board and peripherals back into the antistatic bag when they are not in use or not installed in the chassis.

Some circuitry on the system board can continue operating even though the power is switched off. Under no circumstances should the Lithium battery cell used to power the real-time clock be allowed to be shorted. The battery cell may heat up under these conditions and present a burn hazard.

WARNING!

1. **"CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS"**
2. **This guide is for technically qualified personnel who have experience installing and configuring system boards. Disconnect the system board power supply from its power source before you connect/disconnect cables or install/remove any system board components. Failure to do this can result in personnel injury or equipment damage.**
3. **Avoid short-circuiting the lithium battery; this can cause it to superheat and cause burns if touched.**
4. **Do not operate the processor without a thermal solution. Damage to the processor can occur in seconds.**
5. **Do not block air vents. Minimum 1/2-inch clearance required.**

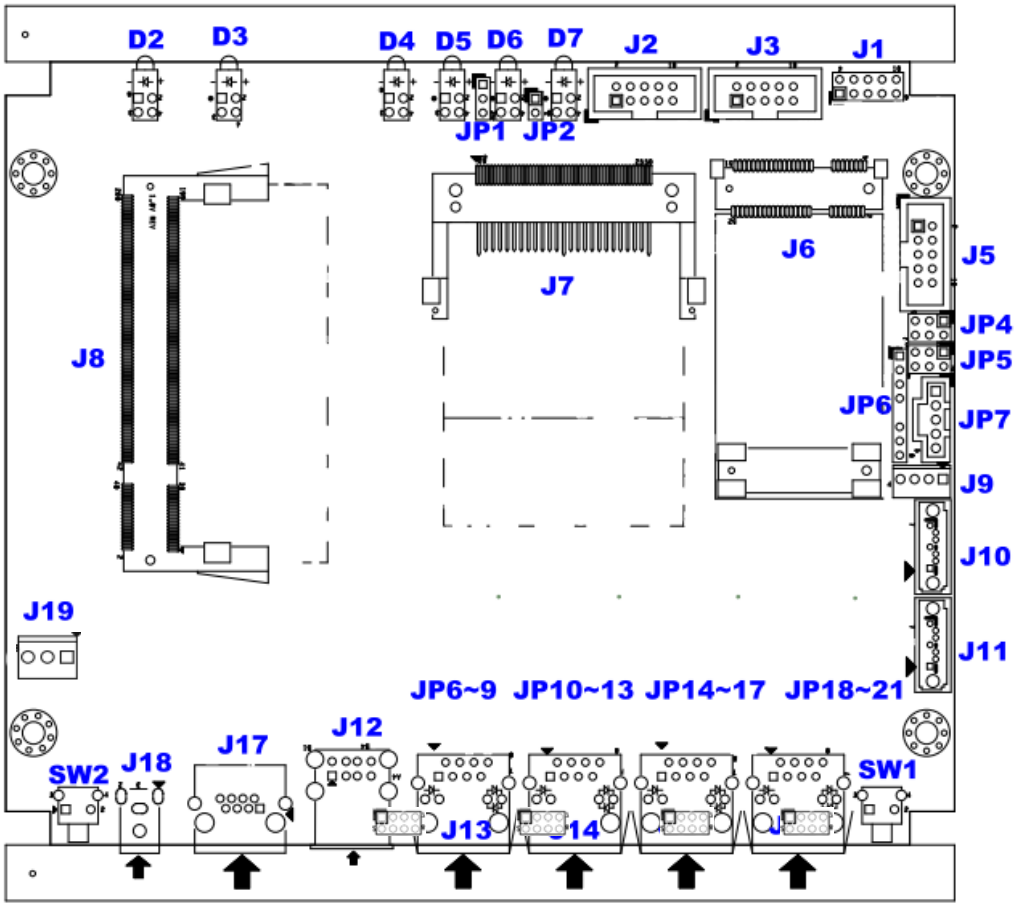
2.3 Hardware Configuration Setting

2.3.1 CAD-0208 System

2.3.2 CAD-0208 System Board Jumper

In general, jumpers o n CAD-0208 system board are used to select options for certain features. Some of the jumpers a re configurable for system enhancement. The others are for testing purpos e only and should not be al tered. To select any option, cover the jumper cap over (Short) or remove (NC) it from the jumper pins according to the following instructions. Here NC stands for "Not Connected".

Location of Jumpers



JP1: CMOS Clear

JP1	Function
1-2 Short	Normal Operation *
2-3 Short	Clear CMOS Contents

JP2: WDT

JP2	Function
1-2 Short	WDT Enable *
1-2 Open	WDT Disable

JP4, JP5 :By-pass and normal mode

JP4, JP5	Function
1-3 , 2-4 Short	Power on default at Normal mode , mode selection is S/W programmable*
3-5 , 2-4 Short	Power on default at Bypass mode , mode selection is S/W programmable
4-6 Short	Always at normal mode.

JP6~JP21: Bypass and Open Mode Selection

JP6~JP21	Function
JP6~21(1-2) short	Byp ass Mode *

JP6~21(1-2) Open	Open Mode

Connector	Function	Remark
D2	HDD LED +Power LED	
D3	By-pass LED	
D4~D7	LAN LED	
J1	8-bit GPIO connector	
J2	VGA connector	
J5	PS2 Pin Header	
J6	Mini PCI Express Card Socket	
J7	CF socket	
J8	DDR2 DIMM Slot	
J9	+5V & +12V Power Connector (Only Output)	
J10,J11	SATA connector	
J12	USB connector	
J13~J16	RJ45 connector	
J17	Console Port	
J18	DC Power Jack (15V)	
J19	Fan Connector	
SW1	Reset To Default	
SW2	System Reset Button	

J1: 8-bit GPIO connector define

Pin	Signal Name	Pin	Signal Name
1 GPIO		2	GPIO
3	GPIO	4	GPIO
5	GPIO	6	GPIO
7	GPIO	8 GPIO	
9 Grou	nd	10	+5V

J2: VGA connector define

Pin	Signal Name	Pin	Signal Name
1 RED		2	DDCCLK
3 GREEN		4	Ground
5 BLUE		6	DDCDATA
7 HSYNC		8	Ground
9 VSYNC		10	N/C

J9: +5V & +12V Power Connector (Only Output)

Pin	Signal Name
1 VDD_	12V
2 GND	
3 GND	
4 VDD_	5V

2.4 The Chassis

The system is integrated in a 1 U desktop chassis (**Fig. 2-1, Fig. 2-2**). On the front panel you will find a Power / HDD / Ethernet LED.

Fig. 2-1 Front view of the chassis

Fig. 2-2 Rear view of the chassis

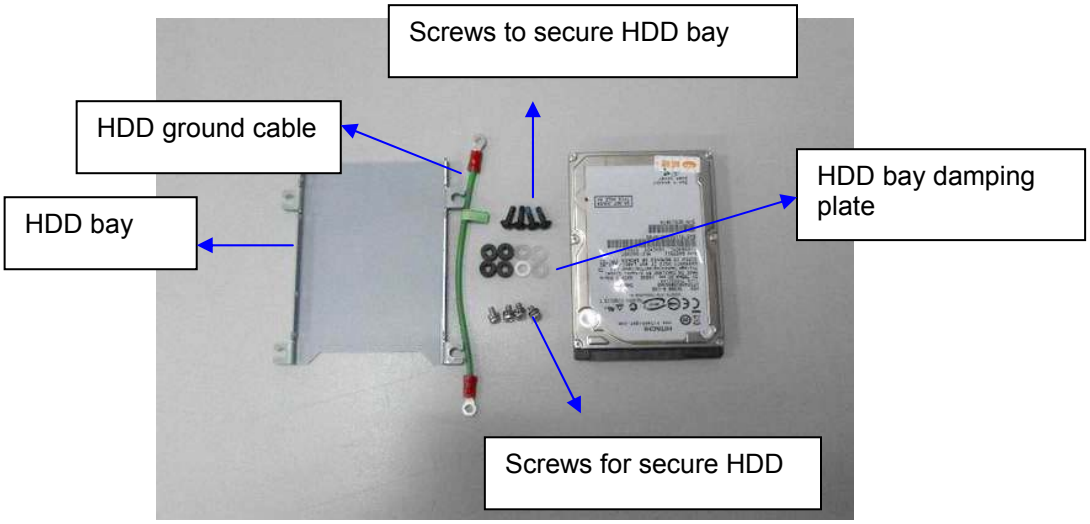
2.5 Open the Chassis

If you want to install or change I/O devices, please open top cover of chassis.

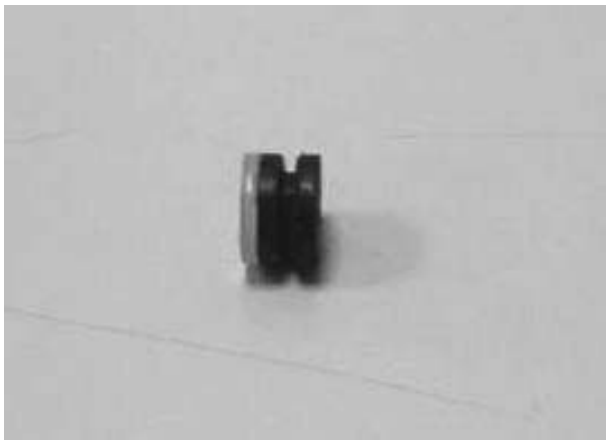
Loosen the 2 screws of bottom side of the chassis; two are on the right/left side then to remove the top cover

2.6 Hard drive Install

The CAD-0208 system has support ed SATA HDD function; please follow steps to install SATA HDD drive.



1. Before install hard drive, please assembly damping plate

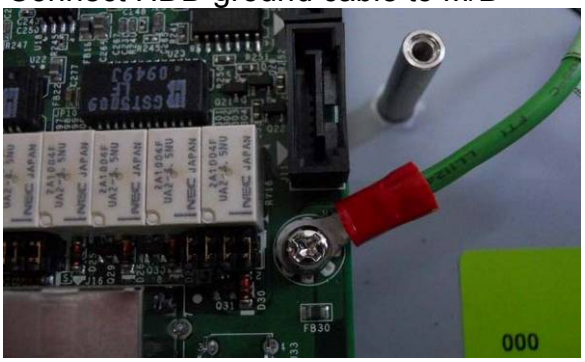


Install damping plate to HDD bay

2. Use 4 screws to secure the drive into HDD bay and also secure HDD ground cable

3. Fix HDD bay and connect SATA cable to hard drive and board connector

4. Connect HDD ground cable to M/B



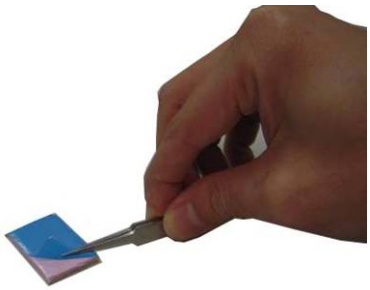
2.7 Thermal Pad Install

The CAD-0208 system was used thermal pad to help chipsets cooling.

Please follow steps to install thermal pad.

1. To clean the bottom side of chassis before install thermal pad

2. The thermal pad is high performance material; please does not touch pad directly by hand



A tweezers should be helpful to install thermal pad

3. The thermal pad will contact between CPU heatsink and chassis bottom side

Please follow the mark on the chassis to install thermal pad to right place

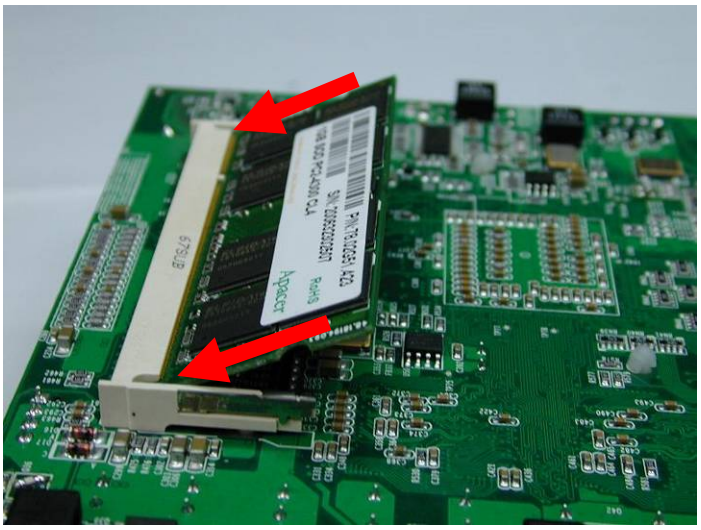
Note: For N450 CPU does not need install thermal pad

2.8 Remove and Install DIMM

Follow these steps to upgrade RAM module:

Make sure to unplug the power supply before adding or removing DIMMs or other system components. Failure to do so may cause severe damage to both the motherboard and the components.

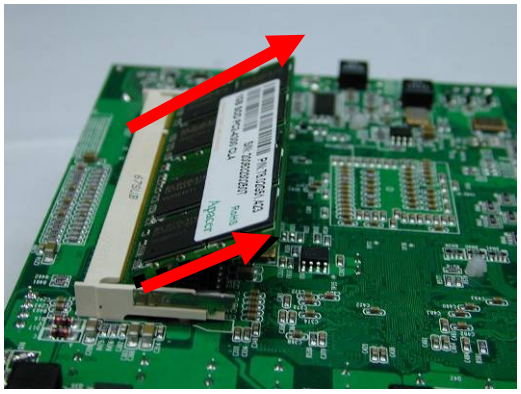
1. Obliquity inserts the DIMM into the socket and depresses DIMM until the retaining clips back in place



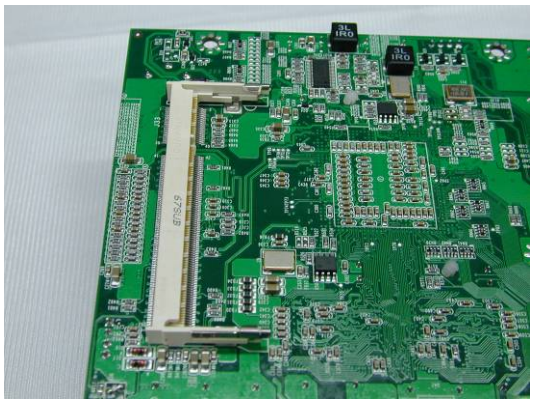
A DDR DIMM is keyed with a notch so that it fits in only one direction.
DO NOT force a DIMM into a socket to avoid damaging the DIMM.

Follow these steps to remove a DIMM:

1. Pull the retaining clips of DIMM socket simultaneously to unlock the DIMM



2. Remove the DIMM from the socket



2.9 Remove and Install CF card

Insert the Compact Flash Card (Fig. 2-3) into the CF interface (Fig. 2-4).

Fig. 2-3 Compact Flash Card

Fig. 2-4 Insert Compact Flash Card into the CF interface

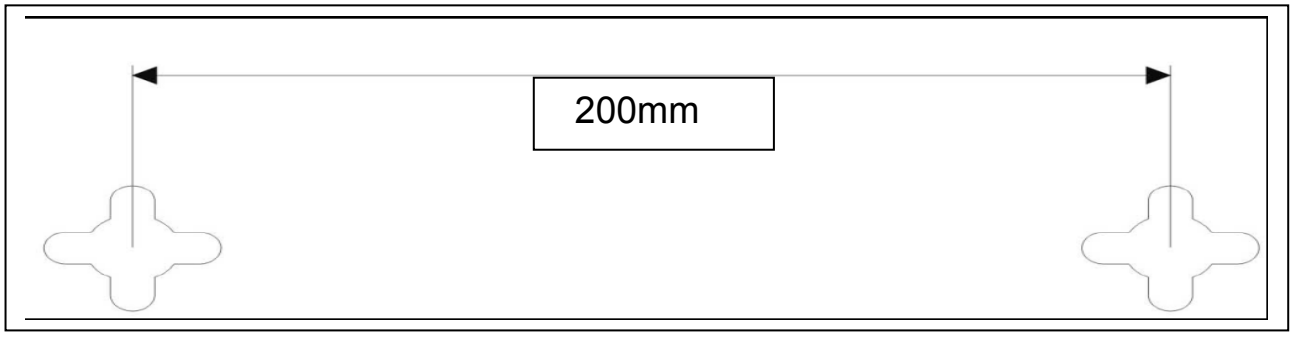
The completed installation of Compact Flash Card is shown as Fig. 2-4

Fig. 2-4 Completion of Compact Flash Card connection

2.10 Wall-Mount Installation

You can mount the CAD-0208 on a wall using the two mounting brackets on the bottom of the appliance. We recommend that you use two round or pan head screws.

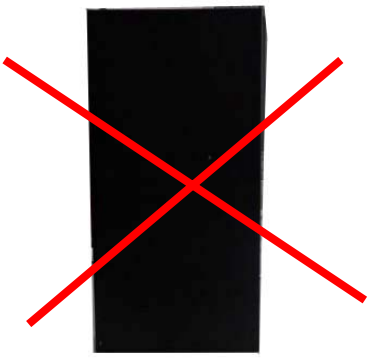
1. Install two screws 200 mm horizontally apart on a wall or other vertical surface.
   The screws should protrude from the wall so that you can fit the appliance between the head of the screw and the wall.



If you install the screws in drywall, use hollow wall anchors to ensure that the unit does not pull away from the wall due to prolonged strain from the cable and power connectors.

2. Remove the CAD-0208 and accessories from the shipping container.
3. Mount the CAD-0208 on the wall as shown below.

4. Do not mount the CAD-0208 on the wall as shown below.



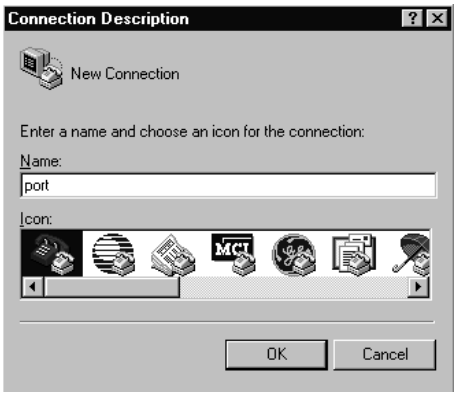
2.11 Use a Client Computer

Connection Using Hyper Terminal

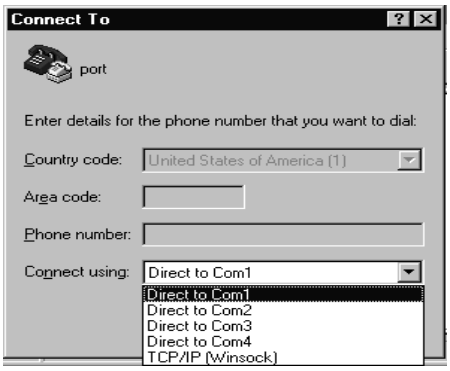
To access CAD-0208 via the console, Hyper Terminal is one of many choices. Follow the steps below for the setup:

Note: Terminal software may need to update for correct console output.

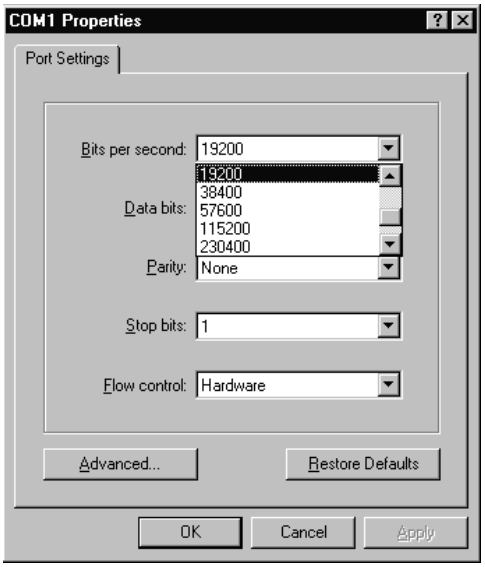
1. Execute HyperTerminal under C:\Program Files\Accessories\HyperTerminal
2. Enter a name to create new dial



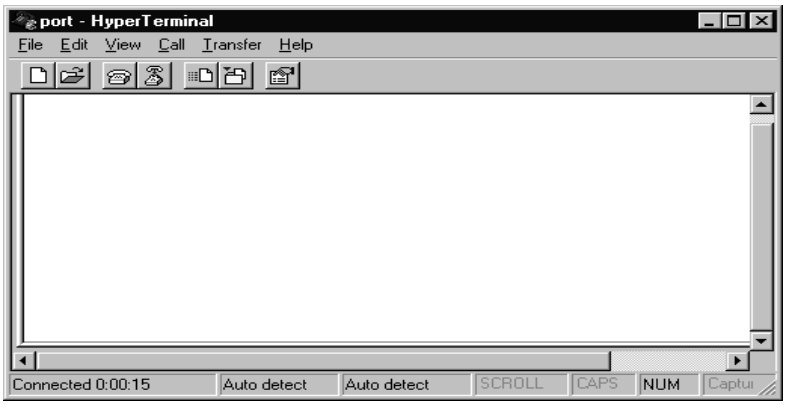
3. For the connection settings, make it Direct to Com1.



4. Please make the port settings to Baud rate 19200, Parity None, Data bits 8, Stop bits 1



5. Turn on the power of CAD-0208 system, after following screen was shown:

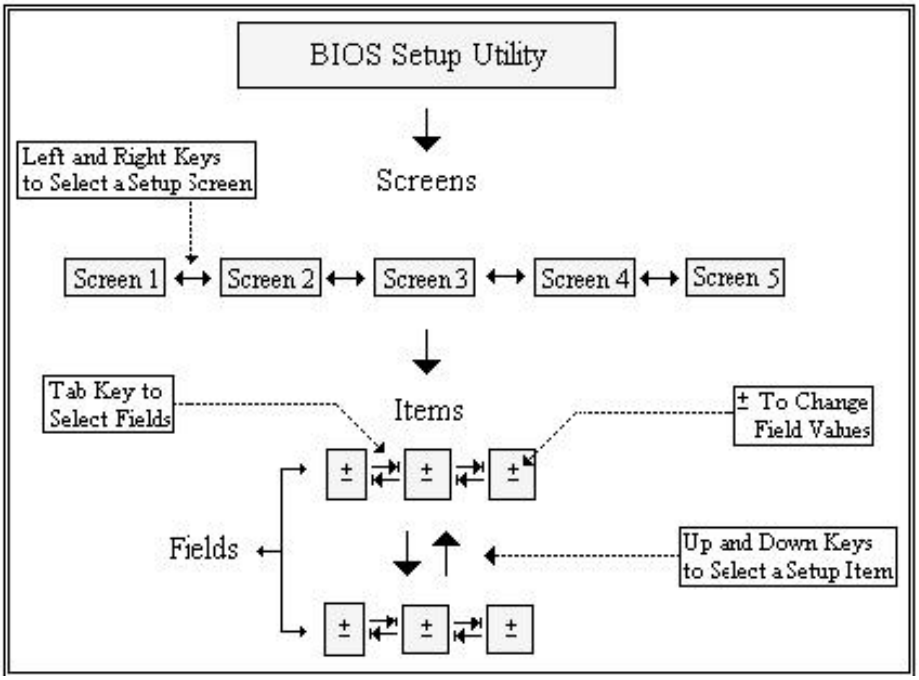


This is the end of this section. If the term inal did not port correctly, pleas e check the previous steps.

Chapter 3 BIOS Setting

Power on the system, press the <Del> to run BIOS setup (remote mode is <Tab>). After you press the <Delete> key, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process. These keys include <F1>, <F10>, <Enter>, <ESC>, <Arrow> keys, and so on.



Control Keys

Key	Function
↑↓**Up /Down**	The Up and Down <Arrow> keys allow you to select a setup item or sub-screen.
→ ← **Left/Right**	The Left and Right <Arrow> keys allow you to select a setup screen. For example: Main screen, Advanced screen, Chipset screen, and so on.
+ - Plus/ Minus	The Plus and Minus <Arrow> keys allow you to change the field value of a particular setup item. For example: Date and Time.

Tab	The <Tab> key allows you to select setup fields.

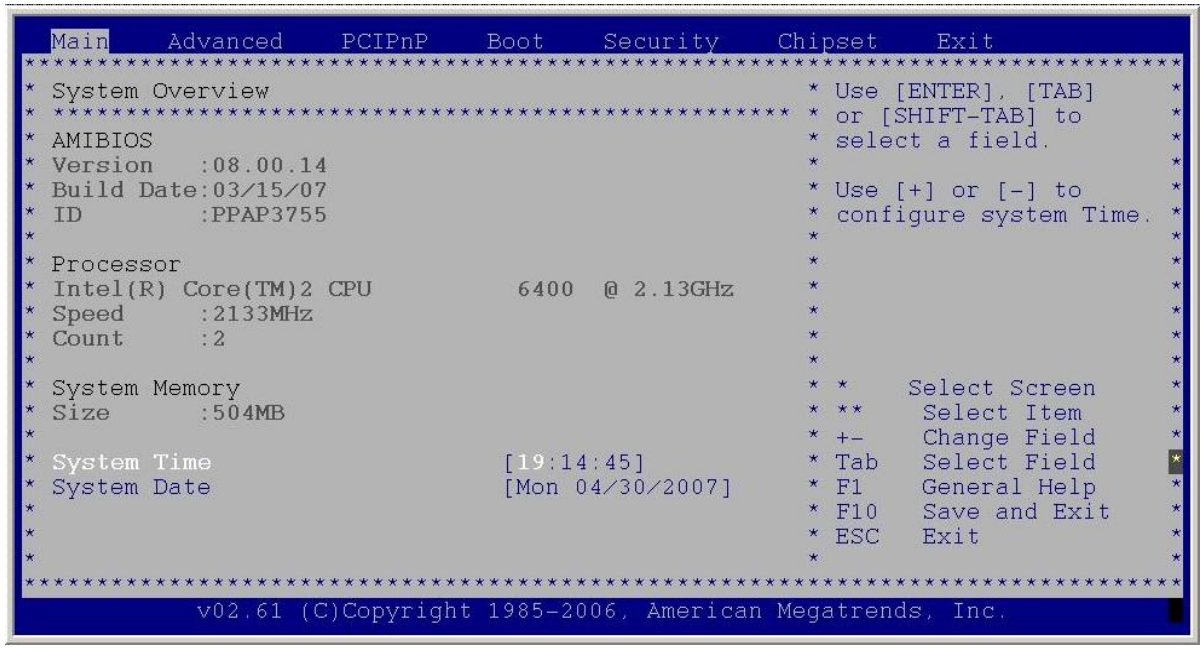
Hot Key	Description
F1	The <F1> key allows you to display the *General Help screen*. Press the <F1> key to open the *General Help screen*. **General Help** ↔ Select Screen ↓↑ Select Item + - Change Screen Enter Go to Sub Screen PGDN Next Page PGUP Previous Page Home Go to Top of the Screen End Go to Bottom of Screen F2/F3 Change Colors F7 Discard Changes F8 Load Failsafe Defaults F9 Load Optimal Defaults F10 Save and Exit ESC Exit [Ok]
F10	The <F10> key allows you to save any changes you have made and exit Setup. Press the <F10> key to save your changes. The following screen will appear: Save configuration changes and exit now? [Ok] [Cancel] Press the <Enter> key to save the configuration and exit. You can also use the <Arrow> key to select *Cancel* and then press the <Enter> key to abort this function and return to the previous screen.
ESC	The <Esc> key allows you to discard any changes you have made and exit the Setup. Press the <Esc> key to exit the setup without saving your changes. The following screen will appear: Discard changes and exit setup now? [Ok] [Cancel] Press the <Enter> key to discard changes and exit. You can also use the <Arrow> key to select *Cancel* and then press the <Enter> key to abort this function and return to the previous screen.
Enter	The <Enter> key allows you to display or change the setup option listed for a particular setup item. The <Enter> key can also allow you to display the setup sub- screens.

Main Menu

When you first enter the Setup Utility, you will enter the Main setup screen. You can always return to the Main setup screen by selecting the Main tab. There are two Main Setup options. They are described in this section.
In console mode:
Press “TAB” key can into BISO setup man menu
Press “B” key can popup device boot menu
Press “L” key can boot from network

```
Portwell, Inc. CAPB-0205 Rev.:Test ( 12312009 )
CPU : Intel(R) Atom(TM) CPU N450   @ 1.66GHz
 Speed : 1.66 GHz

Press L if you want to boot from the network
Press F11 for BBS POPUP (B on Remote Keyboard)
Initializing USB Controllers .. Done.
2039MB OK
USB Device(s): 1 Storage Device
Auto-Detecting 3rd Master..IDE Hard Disk
3rd Master : FUJITSU MHV2040BS  00000028
             Ultra DMA Mode-5, S.M.A.R.T. Capable and Status OK
Auto-detecting USB Mass Storage Devices ..
Device #01 : JetFlash Transcend
01 USB mass storage devices found and configured.
```



System Date / Time

Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time is entered in HH:MM:SS format.

➢ Advanced BIOS Setup

Select the Advanced tab from the setup screen to enter the Advanced BIOS Setup screen. You can select any of the items in the left frame of the screen, such as SuperIO Configuration, to go to the sub menu for that item. You can display an Advanced BIOS Setup option by highlighting it using the <Arrow> keys. All Advanced BIOS Setup options are described in this section. The Advanced BIOS Setup screen is shown below. The sub menus are described on the following pages.

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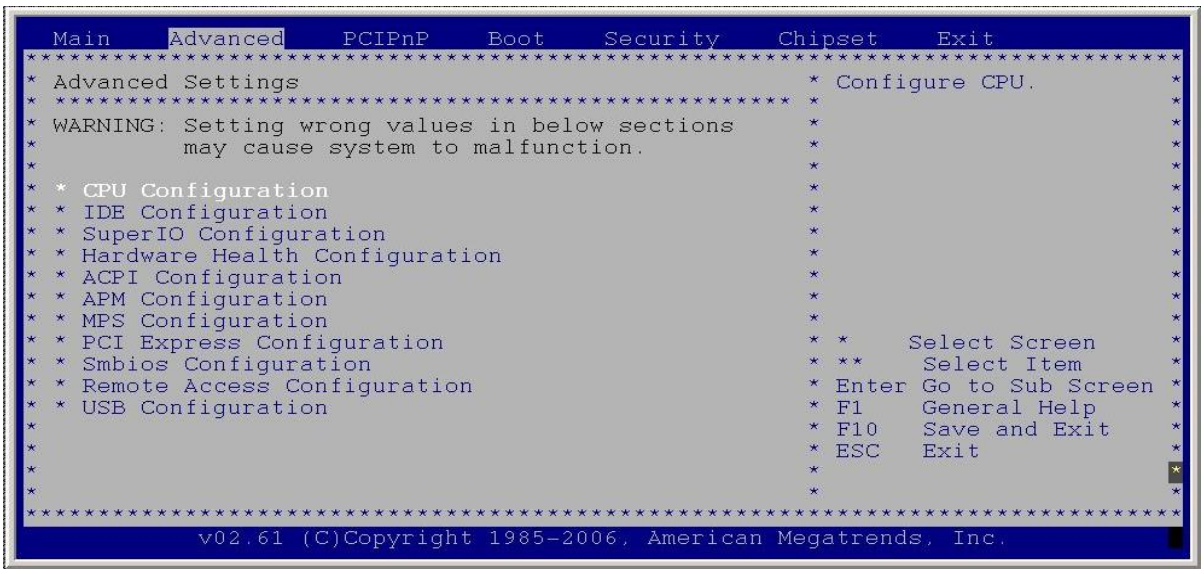
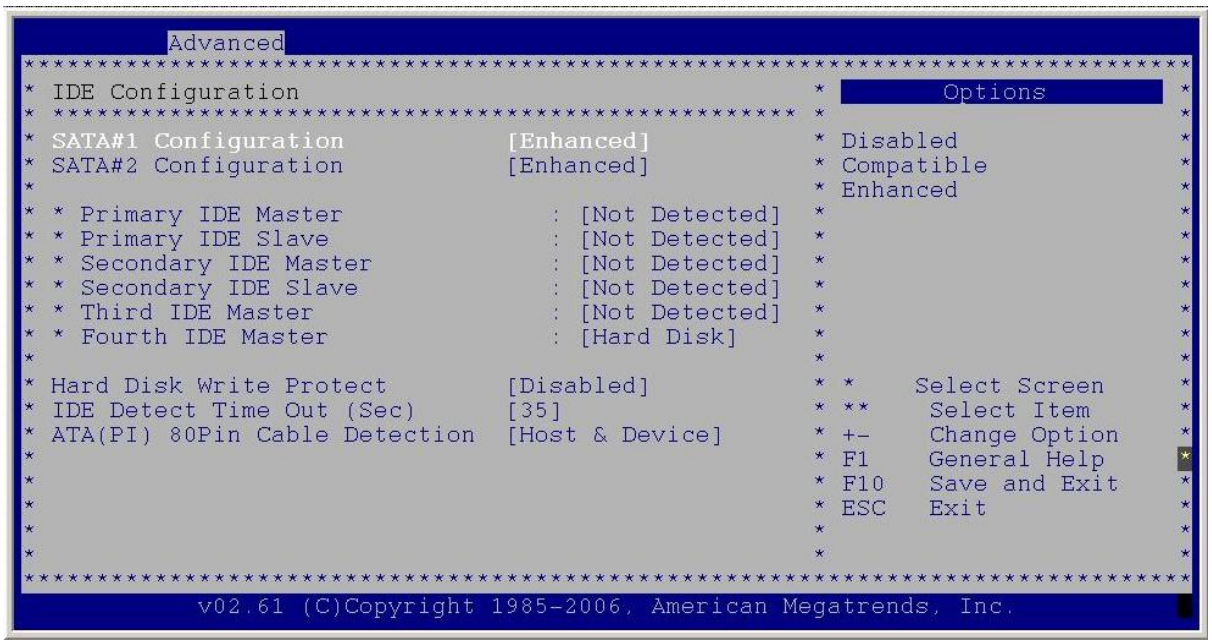


➢ IDE Configuration Setup

From the IDE Configuration screen, press <Enter> to access the sub menu. Use the up and down <Arrow> keys to select an item. The settings are described on the following pages.


Advanced
IDE Configuration
SATA#1 Configuration [Enhanced]
SATA#2 Configuration [Enhanced]
* Primary IDE Master : [Not Detected]
* Primary IDE Slave : [Not Detected]
* Secondary IDE Master : [Not Detected]
* Secondary IDE Slave : [Not Detected]
* Third IDE Master : [Not Detected]
* Fourth IDE Master : [Hard Disk]
Hard Disk Write Protect [Disabled]
IDE Detect Time Out (Sec) [35]
ATA(PI) 80Pin Cable Detection [Host & Device]
Options
Disabled
Compatible
Enhanced
* Select Screen
** Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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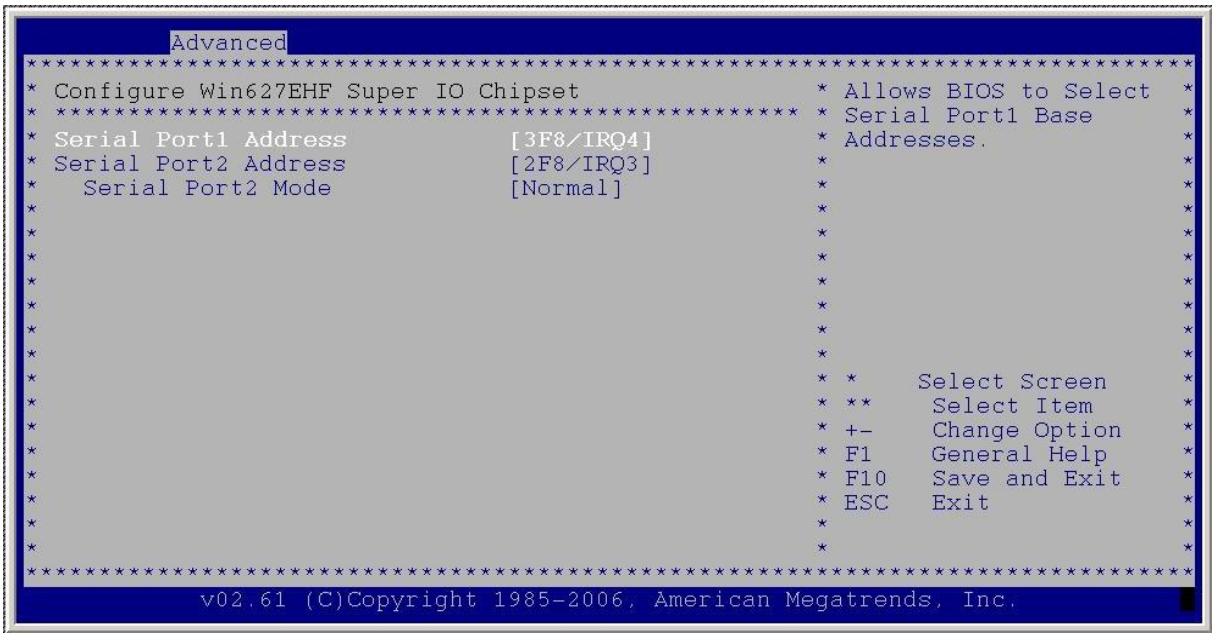
➢ SUPER IO CONFIGURATION

SuperIO Configuration

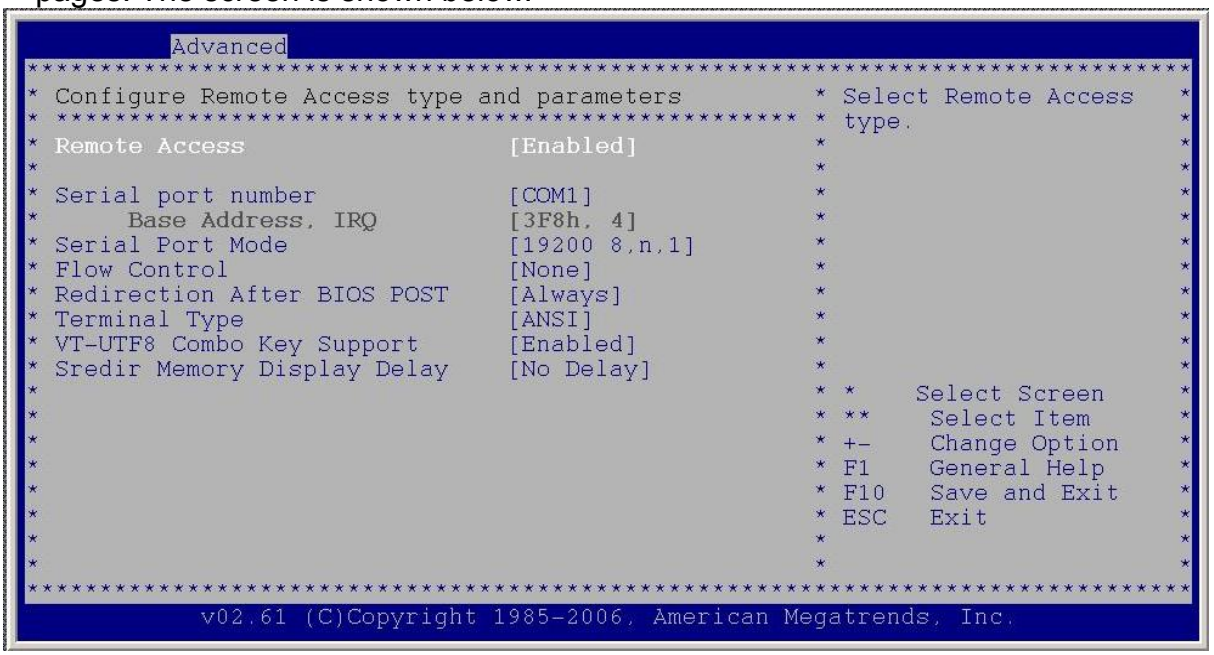
You can use this screen to select options for the Super I/O settings. Use the up and down <Arrow> keys to select an item. Use the <Plus> and <Minus> keys to change the value of the selected option. The settings are described on the following pages. The screen is shown below.



➢ REMOTE ACCESS CONFIGURATION

Remote Access Configuration

You can use this screen to select options for the Remote Access Configuration. Use the up and down <Arrow> keys to select an item. Use the <Plus> and <Minus> keys to change the value of the selected option. The settings are described on the following pages. The screen is shown below.



Remote Access

You can disable or enable the BIOS remote access feature here.

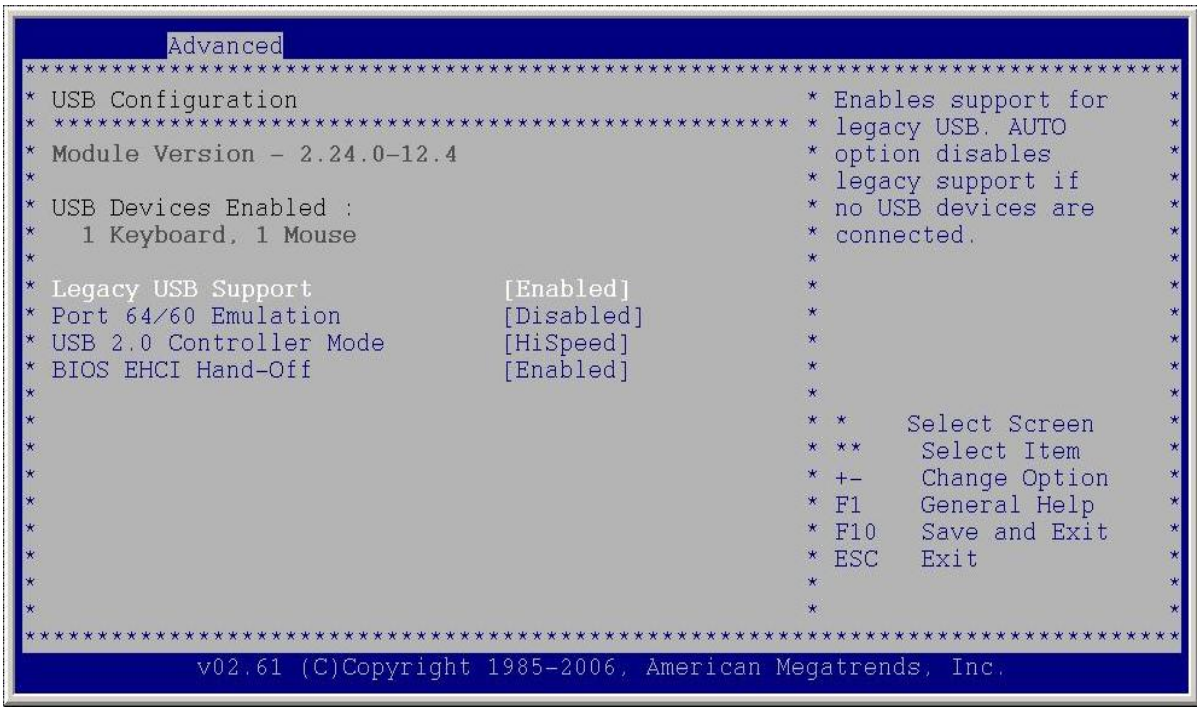
Serial Port Number

Select the serial port you want to use for console redirection. You can set the value for this option to either COM1 or COM2.

Serial Port Mode
Select the baud rate you want the serial port to use for console redirection.

➢ USB Configuration

You can use this screen to select options for the USB Configuration. Use the up and down <Arrow> keys to select an item. Use the <Plus> and <Minus> keys to change the value of the selected option. The settings are described on the following pages. The screen is shown below.


Advanced
USB Configuration
Module Version - 2.24.0-12.4
USB Devices Enabled :
1 Keyboard, 1 Mouse
Legacy USB Support [Enabled]
Port 64/60 Emulation [Disabled]
USB 2.0 Controller Mode [HiSpeed]
BIOS EHCI Hand-Off [Enabled]
Enables support for legacy USB. AUTO option disables legacy support if no USB devices are connected.
* Select Screen
** Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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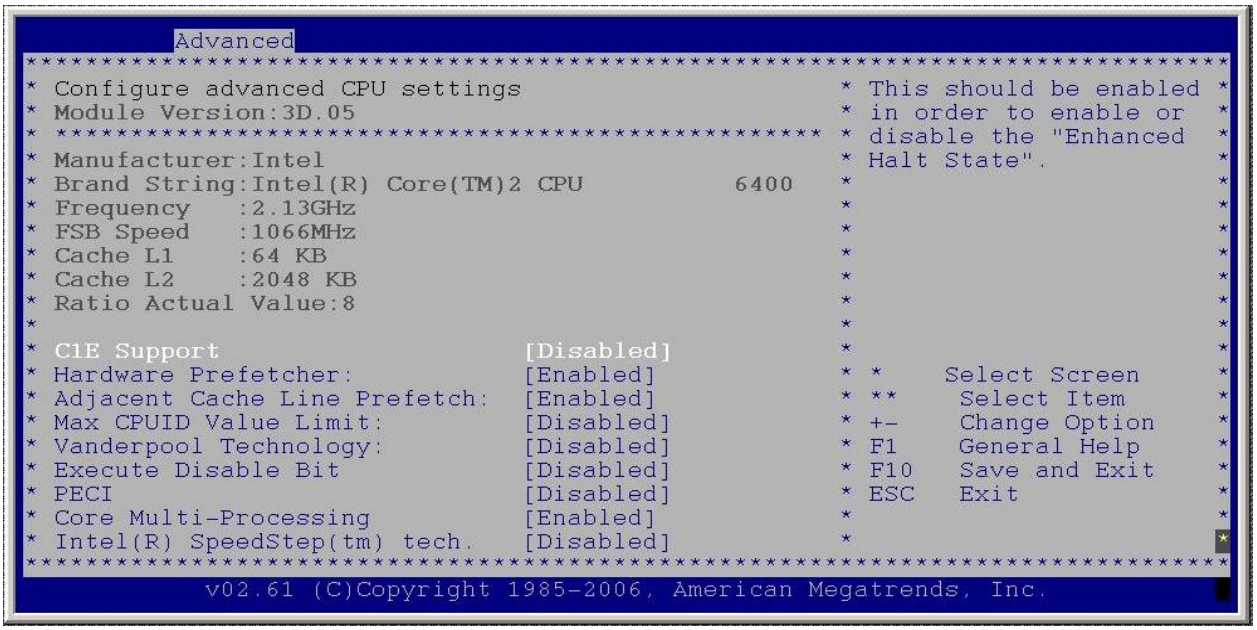
Legacy USB Support
Legacy USB Support refers to the USB mouse and USB keyboard support. Normally if this option is not enabled, any attached USB mouse or USB keyboard will not become available until a USB compatible operating system is fully booted with all USB drivers loaded. When this option is enabled, any attached USB mouse or USB keyboard can control the system even when there is no USB drivers loaded on the system. Set this value to enable or disable the Legacy USB Support. The Optimal and Fail-Safe default setting is Disabled.

➢ CPU Configuration

You can use this screen to select options for the CPU Configuration. Use the up and down <Arrow> keys to select an item. Use the <Plus> and <Minus> keys to change the value of the selected option.


Advanced
* Configure advanced CPU settings
* Module Version:3D.05
* Manufacturer:Intel
* Brand String:Intel(R) Core(TM)2 CPU 6400
* Frequency :2.13GHz
* FSB Speed :1066MHz
* Cache L1 :64 KB
* Cache L2 :2048 KB
* Ratio Actual Value:8
* C1E Support [Disabled]
* Hardware Prefetcher: [Enabled]
* Adjacent Cache Line Prefetch: [Enabled]
* Max CPUID Value Limit: [Disabled]
* Vanderpool Technology: [Disabled]
* Execute Disable Bit [Disabled]
* PECI [Disabled]
* Core Multi-Processing [Enabled]
* Intel(R) SpeedStep(tm) tech. [Disabled]
* This should be enabled in order to enable or disable the "Enhanced Halt State".
* * Select Screen
** Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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Note: The CPU Configuration setup screen varies depending on the installed processor.

➢ Boot Settings

Select the Boot tab from the setup screen to enter the Boot BIOS Setup screen.

Main Advanced PCIPnP Boot Security Chipset Exit
* Boot Settings
* Boot Settings Configuration
* Boot Device Priority
* Hard Disk Drives
* Configure Settings during System Boot.
* * Select Screen
** Select Item
Enter Go to Sub Screen
F1 General Help
F10 Save and Exit
ESC Exit
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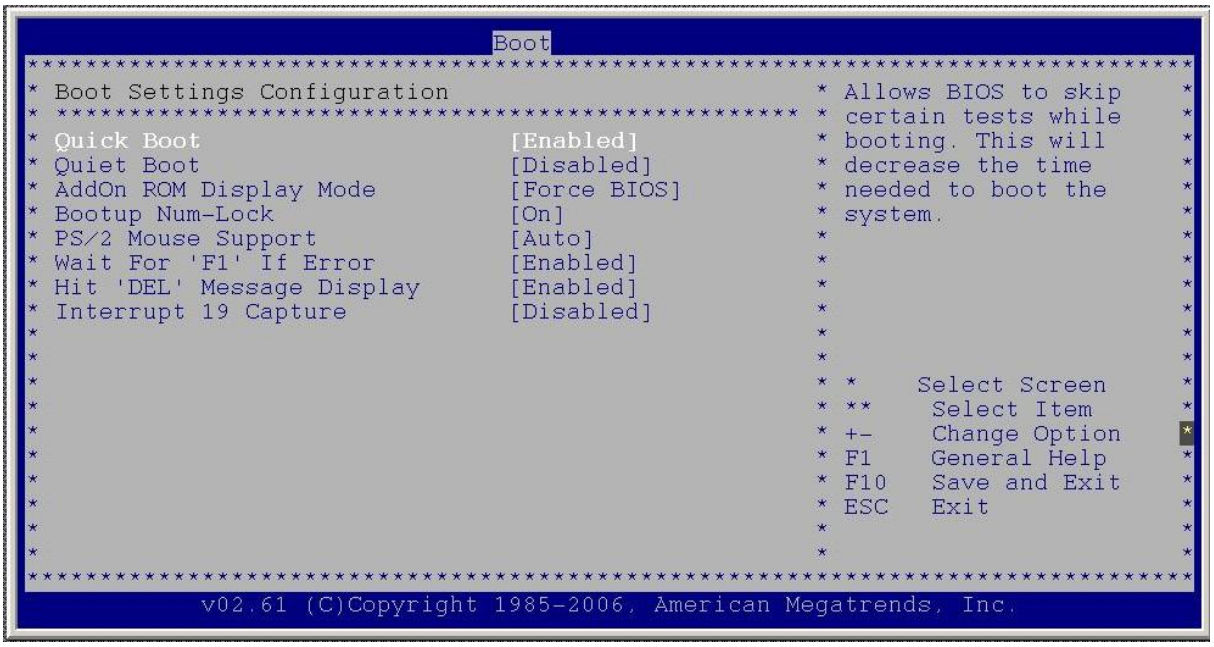
➢ BOOT SETTINGS CONFIGURATION SCREEN

Boot Settings Configuration

Use this screen to select options for the Boot Settings Configuration. Use the up and down <Arrow> keys to select an item. Use the <Plus> and <Minus> keys to change the value of the selected option. The settings are described on the following pages. The screen is shown below.


Boot
Boot Settings Configuration
Quick Boot [Enabled]
Quiet Boot [Disabled]
AddOn ROM Display Mode [Force BIOS]
Bootup Num-Lock [On]
PS/2 Mouse Support [Auto]
Wait For 'F1' If Error [Enabled]
Hit 'DEL' Message Display [Enabled]
Interrupt 19 Capture [Disabled]
Allows BIOS to skip certain tests while booting. This will decrease the time needed to boot the system.
* Select Screen
** Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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Quick Boot
The Optimal and Fail-Safe default setting is Disabled.

Quiet Boot
Set this value to allow the boot up screen options to be modified between POST messages or OEM logo. The Optimal and Fail-Safe default setting is Enabled.

Add-On ROM Display Mode
Set this option to display add-on ROM (read-only memory) messages. The Optimal and Fail-Safe default setting is Force BIOS. An example of this is a SCSI BIOS or VGA BIOS.

Boot up Num-Lock
Set this value to allow the Number Lock setting to be modified during boot up. The Optimal and Fail-Safe default setting is On.

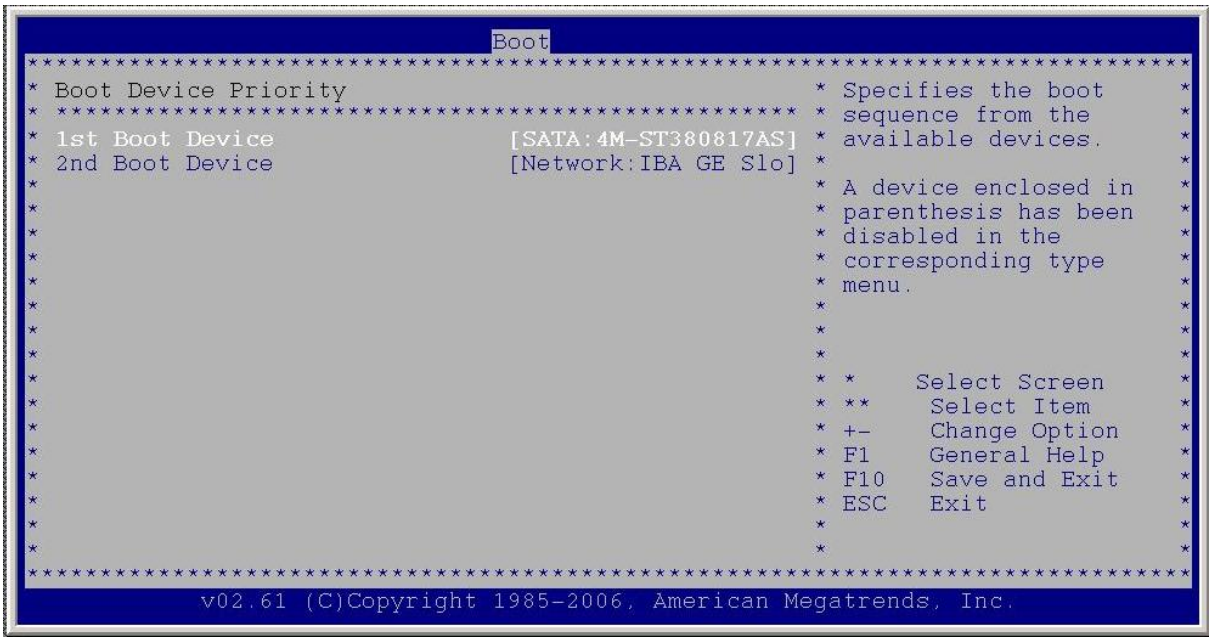
PS/2 Mouse Support
Set this value to allow the PS/2 mouse support to be adjusted. The Optimal and Fail-Safe default setting is Enabled

Interrupt 19 Capture
Set this value to allow option ROMs such as network controllers to trap BIOS interrupt 19.

➢ BOOT DEVICE PRIORITY

Boot Device Priority

Use this screen to specify the order in which the system checks for the device to boot from. To access this screen, select Boot Device Priority on the Boot Setup screen and press <Enter>. The following screen displays:


Boot
Boot Device Priority
1st Boot Device [SATA:4M-ST380817AS]
2nd Boot Device [Network:IBA GE Slo]
Specifies the boot sequence from the available devices.
A device enclosed in parenthesis has been disabled in the corresponding type menu.
* Select Screen
** Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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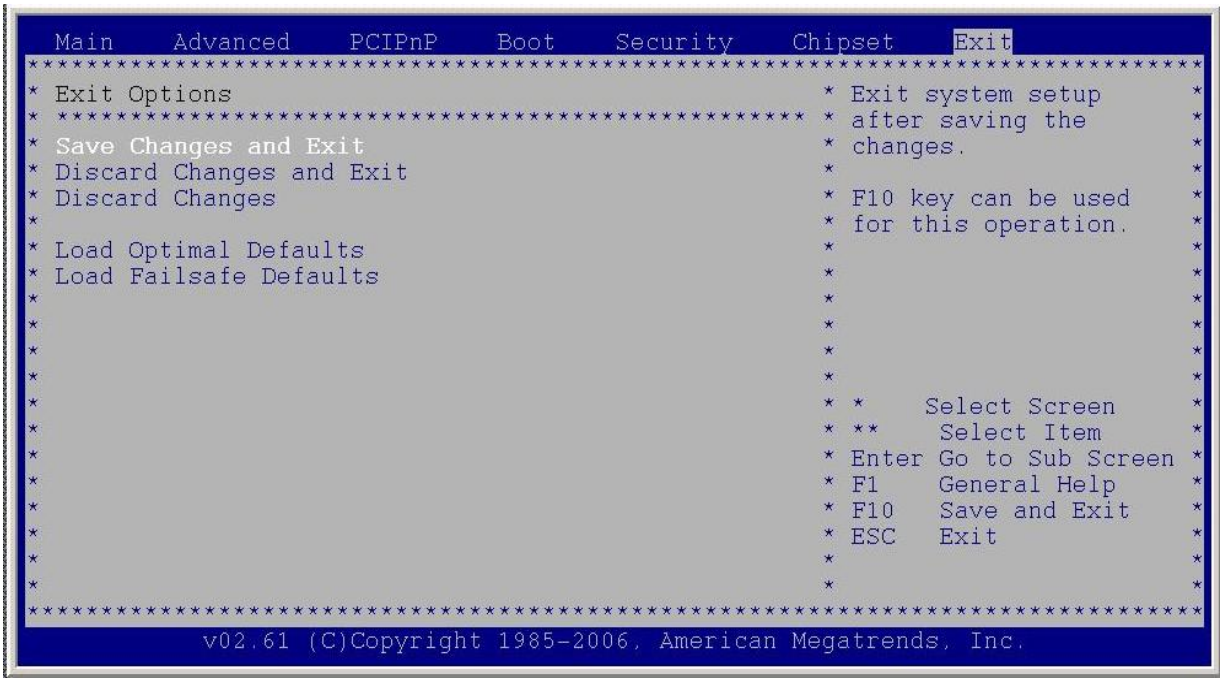
➢ Exit Menu

Select the Exit tab from the setup screen to enter the Exit BIOS Setup screen. You can display an Exit BIOS Setup option by highlighting it using the <Arrow> keys. All Exit BIOS Setup options are described in this section. The Exit BIOS Setup screen is shown below.


Main Advanced PCIPnP Boot Security Chipset Exit
Exit Options
Save Changes and Exit
Discard Changes and Exit
Discard Changes
Load Optimal Defaults
Load Failsafe Defaults
Exit system setup after saving the changes.
F10 key can be used for this operation.
* Select Screen
** Select Item
Enter Go to Sub Screen
F1 General Help
F10 Save and Exit
ESC Exit
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Saving Changes and Exit

When you have completed the system configuration changes, select this option to leave Setup and reboot the computer so the new system configuration parameters can take effect. Select Exit Saving Changes from the Exit menu and press <Enter>.

Discarding Changes and Exit

Select this option to quit Setup without making any permanent changes to the system configuration. Select Exit Discarding Changes from the Exit menu and press <Enter>.

Discard Changes
Select Discard Changes from the Exit menu and press <Enter>.

Load Optimal Defaults
Automatically sets all Setup options to a complete set of default settings when you select this option. Select Load Optimal Defaults from the Exit menu and press <Enter>.

Load Fail-Safe Defaults
Automatically sets all Setup options to a complete set of default settings when you select this option. The Fail-Safe settings are designed for maximum system stability, but not maximum performance. Select the Fail-Safe Setup options if your computer is experiencing system configuration problems.
Select Load Fail-Safe Defaults from the Exit menu and press <Enter>.